



INTERNATIONAL
LIVESTOCK RESEARCH
INSTITUTE

Improving the Livelihoods of Poor Livestock-keepers in Africa through Community-Based Management of Indigenous Farm Animal Genetic Resources

2004 Progress Report

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**FUTURE
HARVEST** ILRI is a Future Harvest Centre (www.futureharvest.org)

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1. Name of IARC: International Livestock Research Institute (ILRI)

2. Project Title:

Improving the Livelihoods of Poor Livestock-keepers in Africa through Community-Based Management of Indigenous Farm Animal Genetic Resources

3. GTZ Project Contract Number: 81070647

4. Reporting Period: 1 May 2004 – 31 December 2004

5. Project Coordinator (Leading Scientist) and Project Scientists

- Dr. Adam G. Drucker (Lead Scientist),
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- Dr. Workneh Ayalew, Dr. Isabelle Baltenweck and Dr. Olivier Hanotte

6. Collaborating Institutions and Staff including NARS and German Partners

6.1 Benin: *Institut National des Recherche Agricoles du Benin (INRAB)*

- National Project Officer (NPO): Isidore Tossa Gbégo
- Senior National Researcher (SNR): Olorounto Delphin Koudandé

EXECUTIVE RESEARCH TEAM:

- Camille Bankolé, Epiphane Sodjinou, Faustin Vidogbena,
- Hippolyte Dossa, PhD Student, University of Goettingen, Germany

SUPPORTING TEAM: Sylvie Adoté, Camille Atchadé and Alex Zoffoun

GERMAN COLLABORATING INSTITUTIONS

- Dr. Clemens Wollny (Goettingen) and Dr. Annemarie Matthes (GTZ/Benin)

6.2 Ethiopia: *Oromiya Agricultural Research Institute (OARI)*

NPO: Dr. Lemma Gizachew

SNR: Mr. Ulfina Galmessa

EXECUTIVE RESEARCH AND SUPPORTING TEAM: Mr. Gemedu Duguma, Dr. Temesgen Ayana, Dr. Mujugeta Kebede, Mr. Diriba Geleti, Mr. Zelalem Belayneh, Mr. Jemal Dekebo, Mr. Gemechu Shale, Mr. Chala Merera and Mr. Jiregna Dessalegn

GERMAN COLLABORATING INSTITUTIONS: Dr. Clemens Wollny (Goettingen), Dr. Awudu Abdulai (Keil) and Girma Tesfahun Kassie – Goettingen PhD student for Ethiopia (Economics of AnGR Conservation and Sustainable Use)

6.3 Kenya: *Kenya Agricultural Research Institute (KARI) and GEF/GTZ Indigenous Vegetation Project Marsabit*

- NPO: Dr. Alexander Kahi - Egerton University
- SNR: M.Sc. Guyo Haro – GTZ/GEF Indigenous Vegetation Project Marsabit
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- **GERMAN COLLABORATING INSTITUTION:** University of Hohenheim, Stuttgart
Dr. Brigitte Kaufmann, Dr. Christian Hülsebusch, Prof. Anne Valle Zárate
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- **PHD FELLOW Hohenheim:** M.Sc. Harun Warui (Characterisation of AnGR in a production systems context)
- **M.Sc. STUDENT Egerton/Hohenheim:** Mr. Samuel Mwanzia Mbuku – (Characterisation of the breeding practices of sheep and goat keepers)
- **M.Sc. STUDENT Nairobi/Hohenheim:** Mr. Isako Tura – Nairobi/Hohenheim M.Sc. student - (Herds history and social networks – Breeds as result of socio-cultural practices)
- **RESEARCH SUPPORT TEAM:** Mr. Rafael Gudere, Mr. Edward Lentorro, Mr. Mamo Sora

7. Project Description

The **goal** of the project is to improve the livelihoods of poor livestock-keepers through the conservation and sustainable use of indigenous animal genetic resources. The **purpose** is the empowerment of local communities, through an improvement of their analytical, technical, managerial and organisational skills to sustainably manage AnGR, in order to reduce poverty and food insecurity. **Outputs** will include: 1) A framework for community-based management (CBM) of AnGR developed, its operational components tested and at least one program established and functional in each project country by the end of the project period; 2) Market opportunities for indigenous livestock quantified and institutional constraints to commercialisation and marketing identified; 3) Producer and consumer preferences for alternative livestock genotypes (and associated products) quantified, and cost-benefit analysis of alternatives conducted and results used to inform policy discussions and development; 4) Policy constraints to conservation and sustainable use of indigenous livestock identified and policy recommendations made to address the constraints and improve opportunities for poor livestock-keepers to derive increased benefits from their livestock; 5) Policy-makers sensitised to community needs and facilitate the formulation and implementation of essential policy instruments, as a result of their participation in project implementation and engagement with farmers in workshops and action learning processes; 6) National capacities for conservation and sustainable use of indigenous AnGR strengthened.

8. Activities Completed

8.1 BENIN

- **Benin National Preparatory Meeting** : Cotonou 17 and 18 May 2004
- **First Annual Project Workshop and training** : Cotonou 11-15 October 2004
- **Finalization of Benin action plan**: 20-23 October 2004
- **Design of approach and PRA tools**: 25-29 October 2004
- **Collection of secondary data**: 2-15 November 2004
- **Acquisition of details maps of Benin**
- **Pre-testing of some of the survey materials previously elaborated**: 24 to 26 November 2004. This activity was undertaken in two randomly chosen villages: Bokpa at Toffo and Miniffi at Dassa.
- **Improvement of tools**: 27 November 2004
- **Informal Participatory Rapid Appraisal, analysis of the data collected and report writing**: These activities were undertaken in December 2004. A total of 8 villages were surveyed in Toffo and Dassa, the two research locations.

8.2 ETHIOPIA

- **Ethiopia National Preparatory Meeting** : May 2004
- **First Annual Project Workshop and training** : Cotonou 11-15 October 2004
- **Finalization of Ethiopia action plan**: Nov 2004
- **Site selection**: Dec 2004
- **Training in the use of participatory rural appraisal(PRA) Techniques**: Dec 2004
- **Stakeholder consultation workshop and site (Peasant Association - PA) selection**: Dec 2004
- **Identification of graduate student candidates for economic, market and policy component work**: June 2004 onwards

8.3 KENYA

- **Preparatory meeting with stakeholders in Marsabit**: Jun. 2004
- **Several preparatory meetings with target groups in Marsabit**: Various dates, 2004
- **PhD student for Kenyan site selected**: Sep. 2004
- **PhD proposal and country workplan development finalised**: Sep. – Nov. 2004
- **Project stakeholder meeting held at Hohenheim**: 01. Oct. 2004
- **Stakeholder meetings held at KARI and IVP**: Dec. 2004.
- **LoA formulation between KARI and Hohenheim**: Dec. 2004 – ongoing
- **LoA formulation between IVP and Hohenheim**: Dec. 2004 - ongoing
- **Initial survey and selection of research sites finalised**: Dec. 2004
- **Selection of Egerton/Hohenheim graduate student finalised**: Dec. 2004
- **Selection of Nairobi/Hohenheim graduate student finalised**: Dec. 2004

8.4 ILRI

- **Finalisation of project proposal and contract details between ILRI and BMZ**
- **Coordination of all activities (project currently advancing to schedule)**
- **Preparation of TORs for project manager, graduate students and consultants**
- **Preparation of Letters of Agreement with all partners (national and German Universities); Follow-up of process of LoA signature and transfer of funds**
- **Interview and hiring of graduate students**
- **Preparation and submission of complementary funding proposals (Graduate Fellow Scholarships (x2) and LPP/NR International)**
- **Organisation and participation in country-level (Benin and Ethiopia) preparatory meetings.**
- **Organisation (including preparatory meeting with workshop trainers) and participation in first annual project-level planning and training meeting; preparation of workshop report (includes protocol/work plan for all future work – as well as identifying communities and priority species/breeds))**
- **Maintain project website up-to-date**

9. Achievements and Constraints

9.1 BENIN

- **Benin National Preparatory Meeting**

The following objectives were achieved: a) internalisation of project strategies; b) planning of the national component; c) identification of responsibilities; and d) preparation for the first annual project meeting to be hosted by Benin

- **First Annual Project Workshop and training**

The following objective were achieved: a) team building; b) deepening of the teams' understanding of the project's objectives and activities; c) agreement over methodological approaches and standards; and d) establishment of clear organizational procedures. However, due to time constraints, the detailed project planning of the activities to be implemented over the coming three years could not be completed during this meeting. For this reason, the finalisation of Benin action plan was recommended as first follow-up activity to the First Annual Project Workshop to be carried out by the Benin participants.

- **Finalization of Benin Action Plan:** The Benin Action plan has been finalized and constitutes a basis for moving forward. However, further improvements are requested and concern mainly the activities related to the economic and policy analysis aspects (currently under development in collaboration with Dr. Baltenweck).

- **Collection of secondary data:** this activity consisted of gathering available information on national livestock production in general and more specifically on the local farm animal genetic resources and their management. It included information available at national and international levels. The information collated have been summarised and a report written. Some documents have been photocopied or printed and a database is created and kept at the Headquarters of the project. Particular difficulties were encountered with regard to access to information. Much of the existing material are in the form of unpublished studies, while published information is scanty.

- **Design of approach and PRA tools:** Different survey materials, including guides and questionnaires were elaborated by the research team (end Oct) in conjunction with INRAB's section of socio-economic and policy analyses. Materials elaborated were sent via ILRI to all other institutions participating in the project for remarks and contributions for their improvement.

- **Pre-testing of some of the survey materials previously elaborated:** In each village, the guides were used in focus groups discussions that involved resource persons (ten women and ten men) selected by the village authority, while the questionnaires were administrated individually. Remarks were recorded in order to improve the tools.

- **Improvement of tools:** This activity has not been totally completed. Only the "guide for elicitation of preferred livestock species by communities" was improved because of its immediate use to confirm the choice of species and communities. The improvement of tools requires more time than one day as previously planned. In addition, the Benin research team is still waiting for reactions from non-Benin participants on the files sent to them via ILRI for peer review. Given its importance, this activity should be repeated in February 2005.

- **Acquisition of detailed maps of Benin:** Detailed maps of the research locations have been ordered from the Laboratory of Remote Sensing of the Faculty of Agronomy, University of Abomey-Calavi.

- **Informal Participatory Rural Appraisal:** The objectives of the PRA survey conducted in a total of 8 villages were twofold: 1) Improve our understanding of the livestock species important to the poor people and confirm the pertinence of the pre-selected species; and 2) Identify four potential communities for further project activities. According to the results of the PRA and irrespective of the research location, chicken, and goats are the two species of highest priority, followed by sheep. The communities of Se Ayahonou and Houngo Gove in Toffo and those of Dewe and Gnonkpingnon in Dassa were identified as potential communities for the implementation of the current project.

- **Creation of awareness among scientists on the need to conserve local AnGR:** Within the framework of the annual meeting of the NARS (14-17 December, 2004), a debate was conducted in a plenary session and was focused on the importance of the local AnGR and the need to conserve them.

9.2 ETHIOPIA

- **Preparatory meeting, annual planning/review meeting and finalisation of action plan:** As described for Benin in 9.1 above.

- **Site selection:** Following a multi-disciplinary and systems analysis, Dano district of West Shoa zone was selected because of its high livestock population, occurrence of serious animal health problems, absence of exotic breeds or crosses and accessibility of the area for regular visits.

- **Training in the use of participatory rural appraisal (PRA) techniques:** Training in the use of PRA Methods and tools was given to the National Research Team members of Bako Research Center from 13 -19 December 2005.

- **Stakeholder consultation workshop and PA (site) selection:** A stakeholder consultation workshop was conducted at Sayo, Dano on 27 December 2004 involving farmers' representatives (PAs administrators and vice-administrators) and civil servants. A consensus was reached regarding the selection of PAs within which the project will work. These are: a) Sayyo Gamballa (representative of lowland areas); b) Ifa Tokkumma (a lowland area of recent settlement); and c) Gidda-Abbu (representative of both intermediate and highlands)

- **Identification of graduate student candidates for economic, market and policy component work.** Contracting and university admission (Goettingen) of candidate for economics/market research.. Preliminary research proposal developed. Additional funding for policy related research not yet achieved. Alternative approach to carrying out such activities now under consideration.

9.3 KENYA

- **Several preparatory meetings with target groups in Marsabit:** The project concept, topic and methodology was introduced to different pastoralist groups in the Rendille area around Kargi and Ngurunit and discussed with view to possible livestock populations and sites to be included.

- **Preparatory meeting with stakeholders in Marsabit:** Staff of the Agricultural extension services and the GEF/GTZ indigenous vegetation project (IVP) were introduced to the project concept. The research topic and methodology were discussed. Possible different project foci and project setups at the local level were devised, the options for involvement of GEF/GTZ in project implementation were explored and possible target group communities pre-identified. The composition of a possible research team and, therein, possibilities for Kenyan B.Sc. holders for further training at M.Sc. level within the scope of the project were discussed; possible candidates were named.

- **PhD student for Kenyan site selected:** Mr. Harun Warui (M.Sc.) was selected among over 20 international candidates in a competitive selection process, based on documents and a written thematic essay consisting of three parts pertaining to the research theme.

- **PhD proposal and country workplan development finalised:** The PhD fellow was introduced to the project background, objectives and activities to be carried out, as well as the overall project setup and the site specific project setup in Kenya. The proposal addresses the activity on characterisation of sheep and goat genetic resources in northern Kenya in their production system context. Based on the proposal, the methodological framework and the results and consensus achieved in the Hohenheim and Benin workshops, the country workplan for Kenya was devised.

- **Project stakeholder meeting held at Hohenheim:** A scientific stakeholder meeting was held in Hohenheim. Purpose of the workshop was to discuss the methodology to be employed in the different fieldwork activities of the project across the three country sites and as a preparatory workshop to the First Annual Project Workshop and training to be held in Benin 11-15 October 2004.

- **Stakeholder meetings held at KARI and IVP:** KARI's Assistant Director Animal Production was introduced in detail to the project setup and discussions were held on the content of a project specific Letter of Agreement. At IVP, discussions with the SRO were held regarding the activities under implementation within the first quarter of the first project year as indicated in the work plan, and the initial survey to select the project study sites.

- **LoA formulation between KARI and Hohenheim and between IVP and Hohenheim:** Draft LoA's for both partnerships were formulated and are currently under scrutiny by the respective legal departments of the institutions involved.

- **Initial survey & selection of research sites finalised:** Proposed sites were visited, starting in the Rendille region. Meetings were held at each site, introducing the project to the target groups.

- **Selection of graduate students finalised:** 1) Mr. Samuel Mwanzia Mbuku was selected as M.Sc. candidate (Egerton/Hohenheim) and developed a proposal entitled "Characterisation of the Breeding Practices of Sheep and Goat Keepers in Northern Kenya", entailing the determination of pastoral animal identification systems and actual and theoretical pastoral selection practices for breeding bucks or rams, as well as identification of the factors that bring about the differences between the actual and theoretical selection practices. The proposal was developed under supervision of the NPO and with feedback from the Hohenheim project staff. 2) Mr. Isako Tura was selected as M.Sc. candidate (Nairobi/Hohenheim) and is currently developing his research proposal on the topic: "Herds history and social networks – Breeds as result of socio-cultural practices", including elements of the LIFE approach on participatory breed characterisation.

10. Conclusions for the following Reporting Period

- Outputs are still relevant and achievable
- Project activities are advancing as scheduled
- Additional funding being sought from other donors to facilitate more in-depth work than originally envisaged with regard to policy analysis and the use of livelihood contribution indicators

11. Publications, Papers and Reports

Annual Planning and Review Workshops

- ILRI BMZ First Annual workshop final report (October 2004)

Preparatory national meetings:

- Improving the Livelihoods of Poor Livestock-keepers in Africa through Community-based Management of Indigenous Farm Animal Genetic Resources, ILRI-BMZ Ethiopia National Preparatory Workshop (May 2004)
- Improving the Livelihoods of Poor Livestock-keepers in Africa through Community-based Management of Indigenous Farm Animal Genetic Resources (CBM of AnGR). ILRI-BMZ Benin National Preparatory Workshop (May 2004)

National Progress Reports

- Report of the stakeholder consultation workshop, Ethiopia (Dec 2004)
- Livestock Production in Benin and Available Farm Animal Genetic Resources: a review (not yet available on website)
- Elicitation of Livestock Species Preference by Communities and Choice of Communities and Species for the Implementation of the ILRI-BMZ Project in Benin (not yet available on website)

Full copies of the reports and accompanying workshop presentations can be found on http://www.ilri.cgiar.org/html/ILRI_BMZ2.asp